

Index

• Numerics •

3D photography, 71

• A •

accessories

- close-up equipment, 98
- for connectivity, 93–97
- filters, 83–86
- flash unit, 90–92
- GPS (Global Positioning System), 96–97
- second/spare camera, 97
- sensor-cleaning kit, 98
- tripod, 86–90

across the frame, subject moving, 191

action photography

- close up/distant subject, 191
- diagonal motion, subject moving in, 191
- with flash, 194
- manual focus, 119
- panning, 191–193
- peak action, 193–194
- relative speed of subject, 191
- shutter lag
 - first-shot delays, minimizing, 186–187
 - flash delays, minimizing, 188–189
 - minimizing, 185–186
 - overview, 182–183
 - shot-to-shot delays, minimizing, 187–188
 - sources of, 184

stopping action, 190–191, 319–320

toward the camera, subject moving, 191

add-on battery pack/grip, 189

Adobe Camera Raw, 149, 178

Adobe Photoshop CS5

- advantages of, 228–229
- Content Aware tools, 228
- disadvantages of, 230–231
- overview, 226–227
- Puppet Warp tool, 228–229

Adobe Photoshop Elements 9.0

- advantages of, 231–233
- disadvantages of, 233
- overview, 231

Adorama, 334

advanced amateur/semi-pro dSLR cameras, 63

air blowers, 98

Allway Sync, 81

alternative image editors, 233–234

ambient lighting, 339–340

amp glow, 147

amp noise, 147

angles

- choosing creative, 303–304
- subject flattering, 207

animal photography, 138

anti-aliasing, 38, 340

anti-dust, 71

anti-shake, 72

aperture (f-stop)

- choosing, 301–302
- ND (neutral density) filters, 84
- overview, 36, 42–44

Aperture Priority mode, 115–116

Apple Camera Connection Kit, 93

architecture photography

- composition, 215–217
- framing, 217

lighting

- harsh, 216
- mixed, 216
- overview, 215
- too little light, 216
- too much light, 216
- uneven, 216

overview, 212

perspective, 212–214

prime lenses, 129

tilting the camera, 213–214

archiving RAW file format, 175

Askey, Phil (Digital Photography Review), 329

atmospheric conditions and telephoto lenses, 140

Auto Color control (Photoshop), 247

Auto tools (Photoshop), 242

automatic focus, 120–122

available lighting, 339–340

axial chromatic aberration, 342

• B •

background

adding new, 274–276

composition, 204–205

out-of-focus, 134–135

backup media, 78–79

balance in travel photography, 220

balancing

lighting, 116

sky and foreground, 84

ball head tripods, 89

barndoors, 296

baroque photography, 323–324

barrel distortion, 214, 258

basic dSLR cameras, 59–61

basic image editing, 306

Bayer, Bryce, 39

Bayer pattern, 39

B&H Photo, 334

Bibble Pro, 178, 180

blooming, 37, 104

blower bulbs, 98

blurring (selective), 238, 254–256

bokeh, 134–135

bracketing, 111, 340–341

bridge (transitional) cameras, 65–66

brightness, 346–347

Brightness/Contrast controls (Photoshop), 242

buffer memory, 48, 187–188

built-in dust removal system, 158

built-in HDR, 71

burning, 343

burst (continuous) shooting mode, 65, 71, 186, 189–190, 300

Busch, David D.

eBay Myth Buster, 334

• C •

CA (chromatic aberration), 214, 258, 342

camera shake

image stabilization, 149, 153–155

myths about, 150

overview, 149–150

solutions for, 152

testing for, 151–152

Canon

cameras, 58

image stabilization, 153

lenses, 140

capacity of memory cards, 74, 75–76

Capture One Pro, 178

card reader adapters, 78

catadioptric telephoto lenses, 135

categories of cameras

advanced amateur/semi-pro dSLR cameras, 63

basic dSLR cameras, 59–61

bridge (transitional) cameras, 65–66

enthusiast dSLR cameras, 62–63

EVF cameras, 65–66

mirrorless cameras, 65–66

overview, 59

professional dSLR cameras, 63–65

superzoom cameras, 65–66

CCD (charge-coupled device), 38, 69

CD/DVD burners, 78

center of interest, 203

center weighted metering, 110

changing environments, resolution in, 298

chromatic aberration (CA), 214, 258, 342

chrominance, 166

circular polarizers, 85

cleaning sensors, 25

Clone Stamp tool (Photoshop), 251–252

close-up equipment, 98

close-up images

action photography, 191

flash photography, 188


close-up (macro) photography

manual focus, 119

prime lenses, 130

telephoto lenses, 138

cloud storage, disadvantages of, 81

- CMOS (complementary metal-oxide semiconductor), 38, 69
 - Cokin, 86
 - Color Balance sliders (Photoshop), 247
 - color correction, 238, 247–249
 - CompactFlash (CF) memory card, 48, 74, 75
 - Composer/Composer Pro (Lensbaby), 141
 - (compositing) combining photographs, 276–282, 306
 - composition
 - architecture photography, 215–217
 - background, 204–205
 - center of interest, 203
 - horizontal, 203–204
 - intent, knowing your, 203–205
 - landscape photography, 217–219
 - message, knowing your, 203–205
 - overview, 202–203
 - point-and-shoot cameras and dSLRs compared, 201–202
 - portrait photography, 206–209
 - publicity and public relations (PR) photography, 210–211
 - Rule of Thirds, 205–206
 - subject, distance and angle to your, 204
 - subject arrangement, 204
 - travel photography, 219–221
 - vertical, 203–204
 - viewfinder, with a more accurate, 11–12
 - compression, 138
 - computer
 - correcting images without, 28
 - resolution for computer work, 300
 - connectivity
 - iPad apps, 93
 - smart phone apps, 93
 - tablet apps, 93
 - uploading
 - through smart phone, 96
 - through tablet, 96
 - to web, 95
 - to your computer, 94
 - Wi-Fi transmission, 93–96
 - Content Aware tools (Adobe Photoshop CS5), 228
 - continuous autofocus, 121
 - continuous shooting mode, 65, 71, 186, 189–190, 300
 - contrast detection, 46
 - Control Freak (Lensbaby), 142
 - cookies, 296
 - Corel Painter 12, 234
 - Corel PaintShop Photo Pro X3, 234
 - Corel Photo-Paint X5, 233
 - crop factor, 52–54, 133–134
 - Crop tool (Photoshop), 241
 - cropping, 32, 237, 238–241
 - Curves dialog box (Photoshop), 242, 246, 248
- 
- DCT (Discrete Cosine Transformation), 166
 - defects, in portrait photography use
 - diffuse lighting to diminish, 208
 - defocus control, 133
 - demosaicing, 39
 - depth-of-field
 - control, 16–17
 - creative application of, 302–303
 - increasing, 136
 - overview, 47
 - preview, 12
 - telephoto lenses, 139
 - Despeckle filter (Photoshop), 251
 - diagonal motion, subject moving in, 191
 - diamonds, grouping people in, 209
 - digital negatives, RAW file format as, 173–180
 - Digital Photo Professional, 176–177
 - Digital Photography Review, 68, 329–331
 - digital single lens reflex (dSLR)
 - accessories
 - close-up equipment, 98
 - for connectivity, 93–97
 - filters, 83–86
 - flash unit, 90–92
 - GPS (Global Positioning System), 96–97
 - second/spare camera, 97
 - sensor-cleaning kit, 98
 - tripod, 86–90

digital single lens reflex (*continued*)

components of

aperture, 36

dual memory cards, 50–51

exposure, 42–44

lenses, 35, 47

light-sensitive component, 36

Live View, 44–47

medium for storing captured image, 36

overview, 35–36

sensors, 37–41

shutter, 36

storing images, 47–49

viewfinder, 44–47

viewing system, 35

features, 8–9

improvements in

cleaning, 25

in-camera editing, 28

Live View preview, 25–27

overview, 1–2

superwide lenses, 23–24

video, 28

weight, 27

improving your photography with

composing your shots with a more

accurate viewfinder, 11–12

depth-of-field control, 16–17

ease of use, 20–21

image editors, freedom from, 22–23

lens flexibility, 21–22

noise reduction, 14–16

overview, 10–11

sensors, 12–14

speed, 17–20

quirks of

crop factor, 52–54

sensor cleaning, 51–52

selecting

categories of cameras, 59–66

key features, 67–72

overview, 55–57

upgrade potential, 57–58

direction, have everyone look in same, 209

Discrete Cosine Transformation (DCT), 166

distant subject, photographing, 191

dodging, 343

do-it-yourself image printing, 286

downsampling, 34

DPreview, 68, 329–331

Drobos, 81

dropping pixels, 34

dSLR. *See* digital single lens reflex

dual memory cards

capacity, 77

fast card/slow card, using, 77

identical cards, using, 77

older cards, recycling, 77

overview, 50–51, 76–77

duplex printing, 292

Dust & Scratches filter (Photoshop), 251

DVD burners, 78

DxO Labs, 342

dynamic focus area, 121

dynamic range, 68, 105, 241



ease of use, 20–21

eBay, 334–337

eBay Myth Buster (Busch), 334

Edgerton, Harold (professor), 194

editing

in-camera

computer, correcting images without, 28

Internet distribution, lower-resolution

version of image for, 28

overview, 28

special effects, applying, 28

TIFF (Tagged Image File Format) file

format, 169

electronic viewfinders (EVF), 11–12

enlarging images, 32

enthusiast dSLR cameras, 62–63

EOS Utility, 176

EVF cameras, 65–66

existing lighting, 339–340

exposure

histograms, 106–108

metering system

center weighting, 110

choosing, 109–110

how it works, 109

multipoint/evaluative/matrix

metering, 110

options, 111–112

- overview, 109
 - spot metering, 110
 - modes
 - Aperture Priority, 115–116
 - choosing, 112–118
 - Manual Exposure, 116–117
 - overview, 112–113
 - Program, 113–114
 - Scene, 114
 - Shutter Priority, 115–116
 - overview, 42–44, 104–105
 - shutter speeds, 42
 - simple method for adjusting, 112–113
 - systems, 69, 198
 - exposure time, 42
 - extension tubes, 98–99
 - external hard drives, 78–79
 - Eye-Fi, 93–96
 - eyeglasses, avoiding reflections off, 208
 - eye-points, 26
- **F** •
- Facebook, 326–327
 - fast lens for night photography, 146
 - fast shutter speed, 319–320
 - feathered edges, 261
 - file formats
 - choosing, 168–173
 - JPEG (Joint Photographic Experts Group)
 - lossy compression, 166–167
 - memory, 171–172
 - overview, 166–168
 - post-processing, 170
 - quality, 170
 - software compatibility, 170
 - web display, 170
 - when to use, 170–172
 - JPEG + RAW, 172
 - overview, 161–164
 - PixelPaint, 164
 - proprietary, 164
 - RAW
 - archiving, 175
 - as digital negatives, 173–180
 - image-editing applications for, 175–180
 - overview, 168, 172
 - salvaging images from, 173–174
 - when to use, 173
 - TIFF (Tagged Image File Format)
 - editing, 169
 - file size, 165
 - lossless compression, 165
 - memory, 169
 - overview, 164–165
 - post-processing, 169
 - quality, 169
 - when to use, 169
 - Fill Flash, 343–344
 - filters
 - creating, 320–321
 - Despeckle, 251
 - Dust & Scratches, 251
 - infrared, 85
 - Lens Correction, 214, 258, 342
 - ND (neutral density), 84, 86
 - overview, 83–84
 - polarizing, 85
 - Reduce Noise, 149, 250
 - special effects, 86, 320–321
 - upgrade potential, 58
 - fireworks photography, 321–323
 - fixes and repairs
 - blurring (selective), 238, 254–256
 - color correction, 238, 247–249
 - cropping, 237, 238–241
 - overview, 237–238
 - sharpening, 238, 254
 - spot removal, 238, 249–253
 - tonal adjustments, 238, 241–246
 - flare, 140
 - flash memory, 48
 - flash photography
 - for action, 194
 - add-on battery pack/grip, using, 189
 - close-up images, 188
 - disadvantages of, 196
 - exposure system, 198
 - front-curtain sync, 197
 - high-speed sync, 198
 - inverse-square law, 195–196
 - overview, 195–196
 - rear-curtain sync, 197
 - reducing flash power, 188
 - setting off external flash, 199–200
 - shutter lag, 188–189
 - slave device used for setting off external flash, 199

- flash photography (*continued*)
 - slow-sync, 198
 - syncing with shutter, 196–198
 - using, 188–189
 - wireless trigger used for setting off
 - external flash, 199
- flash sync speed, 196–198
- flash unit
 - communication with camera by, 90
 - hardwired, 92
 - hot-shoe, 92
 - monolights, 91
 - overview, 90
 - PC (Prontor-Compur) connection, 92
 - slave unit, 91
 - speedlight, 90
 - for sports photography, 91
 - studio, 91
 - telephoto lenses, 139
 - triggering, 91–92
 - types of, 90–91
 - wide-angle lenses and, 138
 - wireless mode, 91–92
- fluid head tripods, 89
- focal length, 47
- focal length range, 68
- focal plane shutter, 197
- focus
 - automatic, 120–122
 - continuous autofocus, 121
 - deep, 136
 - locking out focus ranges, 121
 - manual, 119–120, 186
 - overview, 118, 186
 - selective, 118
 - single autofocus, 122
 - zones, 186
- focus assist lamp, 121
- focus control portrait lenses, 132
- focusing systems, 69–70
- foreground
 - distorting, 136
 - emphasizing, 136
- form factor, 74
- Foveon sensors, 40
- frame rates, 145
- frame, having subject look into, 207
- free image editors/albums, 234

- front-curtain sync, 197
- f-stop
 - choosing, 301–302
 - ND (neutral density) filters, 84
 - overview, 36, 42–44
- Full HD video, 145
- full-frame cameras, 10

● G ●

- Galbraith, Rob (photographer), 75, 333–334
- gobos, 296
- Gorillapod, 88
- GPS (Global Positioning System), 96–97
- GraphicConverter, 178
- groups, photographing, 208–209

● H ●

- hard drives, 79–81
- hardwired flash unit, 92
- harsh lighting, 216
- HDMI connector, 146
- HDR (high dynamic range) photography
 - built-in HDR, 71
 - tripods used for, 87–88
- Healing Brush (Photoshop), 252
- high contrast, 241
- high ISO settings causing noise, 14–15
- highest JPEG setting, resolution at, 299
- highest RAW setting, resolution at, 299
- high-speed sync, 198
- histogram, 25–26, 244
- horizontal composition, 203–204
- horizontal lines skewed, avoiding, 136
- hot mirror, 157
- hot-shoe flash unit, 92
- hue, 346–347
- Hue/Saturation control (Photoshop), 247–248
- hyperfocal distance, 344

● I ●

- image editing
 - with Adobe Photoshop CS5
 - advantages of, 228–229
 - Content Aware tools, 228

- disadvantages of, 230–231
- overview, 226–227
- Puppet Warp tool, 228–229
- with Adobe Photoshop Elements 9.0
 - advantages of, 231–233
 - disadvantages of, 233
 - overview, 231
- alternative image editors, 233–234
- background, adding new, 274–276
- basic, 306
- choosing an image editor, 226–235
- (compositing) combining photographs,
 - 276–282, 306
- Corel Painter 12, 234
- Corel PaintShop Photo Pro X3, 234
- Corel Photo-Paint X5, 233
- with filters, 256–258
- fixes and repairs
 - blurring (selective), 238, 254–256
 - color correction, 238, 247–249
 - cropping, 237, 238–241
 - overview, 237–238
 - sharpening, 238, 254
 - spot removal, 238, 249–253
 - tonal adjustments, 238, 241–246
- free image editors/albums, 234
- freedom from image editors, 22–23
- JPEG (Joint Photographic Experts Group)
 - file format, 170
- manipulation of images with image editors, 306
- overview, 225
- Photoshop.com, 234
- RAW file format, 175–180
- removing people from images, 270–271
- retouching, 306
- selections
 - changing, 261
 - converting, 262
 - copying, 261
 - cutting, 261
 - filling, 261
 - with Lasso tool, 264
 - with Magic Wand tool, 265–267
 - with Marquee tool, 262–263
- masking, 261
- modifying, 269–270
- overview, 260–261
- painting, 261, 267–268
- pixels, selecting, 265–267
- saving, 262
- selecting shapes, 262–264
- transforming, 262
- separated subjects, bringing together,
 - 271–273
- special effects with, 324
- TIFF (Tagged Image File Format) file format, 169
- Windows Live Photo Gallery 2011, 234
- workflow, 235–237
- image processors, 68–69
- image stabilization, 39, 149, 153–155
- improvements in digital single lens reflex (dSLR)
 - cleaning, 25
 - in-camera editing, 28
 - Live View preview, 25–27
 - overview, 1–2
 - superwide lenses, 23–24
 - video, 28
 - weight, 27
- improving your photography
 - angles, choosing creative, 303–304
 - depth-of-field, creative application of,
 - 302–303
 - with digital single lens reflex (dSLR)
 - composing your shots with a more accurate viewfinder, 11–12
 - depth-of-field control, 16–17
 - ease of use, 20–21
 - image editors, freedom from, 22–23
 - lens flexibility, 21–22
 - noise reduction, 14–16
 - overview, 10–11
 - sensors, 12–14
 - speed, 17–20
 - f-stop, choosing, 301–302
 - image editors, manipulation of images with, 306
 - lenses, utilizing capabilities of your,
 - 304–305
 - with lighting techniques, 295–297
 - manual, reading your, 307–308
 - noise, enhancing, 305–306
 - resolution, choosing, 297–300
 - shutter speed, choosing, 300–301

- in-camera editing
 - computer, correcting images without, 28
 - Internet distribution, lower-resolution version of image for, 28
 - overview, 28
 - special effects, applying, 28
- individual portraits, 207–208
- indoor sports photography, 129
- infrared cutoff filter, 39
- infrared filters, 85
- infrared (IR) photography, 157–158, 309–311
- inks for printing, 290
- input/output trays for printers, 292
- Internet distribution, lower-resolution version of image for, 28
- interpolate, 39
- inverse-square law, 195–196
- iPad apps, 93
- IrfanView, 178
- ISO (International Organization for Standardization)
 - described, 14
 - settings
 - new normal for, 117–118
 - for night photography, 147
- isolation, 138

• J •

- joystick head tripods, 89
- JPEG + RAW, 172
- JPEG (Joint Photographic Experts Group)
 - file format
 - highest JPEG setting, resolution at, 299
 - lossy compression, 166–167
 - memory, 171–172
 - overview, 166–168
 - post-processing, 170
 - quality, 170
 - second-best JPEG setting, resolution at, 299
 - software compatibility, 170
 - web display, 170
 - when to use, 170–172
- judder, 145

• K •

- KEH (website), 334
- kiosk/professional lab option for printing
 - images, 288
- Kodak Gallery, 287
- Kurosawa, Akira (film director), 136, 202

• L •

- landscape photography
 - composition, 217–219
 - manual focus for, 219
 - overview, 217–219
 - prime lenses, 130
 - Rule of Thirds, 218
 - sunrises, 219
 - sunsets, 219
 - tripods, using, 218
 - vertical orientation for, 219
- Lasso tool (Photoshop), 264
- lateral chromatic aberration, 342
- LCD preview
 - eye-points, extended, 26
 - histograms, 25–26
 - infrared imagery, 27
- Lens Correction filter (Photoshop), 214, 258, 342
- Lensbaby, 141–142
- lenses
 - bokeh, 134–135
 - Canon, 140
 - catadioptric telephoto, 135
 - compatibility with earlier cameras, 140–141
 - concepts, 133–135
 - creative use of
 - telephoto lenses, 138–140
 - wide-angle lenses, 136–138
 - flexibility, 21–22
 - focal length range, 68
 - focus control portrait, 132
 - for low light, 124
 - macro, 128, 131, 132
 - mid-range, 131
 - Minolta/Konica Minolta/Sony Alpha, 140
 - mirror telephoto, 135

- Nikon, 140
 - Olympus, 141
 - optical image stabilization, 132
 - overview, 8–9, 35, 47
 - Pentax, 141
 - perspective control, 132
 - prime, 47, 128–130
 - quality of, 67
 - sensors, relationship with, 133–134
 - for sharpness, 125
 - short-tele to telephoto, 131
 - and shutter speed, 124
 - special, 132–133
 - special effects, 141–142
 - special features, 68
 - switching between, 8–9
 - telephoto, 127, 131, 138–140
 - tilt-shift, 68
 - utilizing capabilities of your, 304–305
 - UV (ultraviolet), 133
 - wide-angle, 125–126, 131, 136–138
 - zoom, 47, 128, 130–131
 - Levels dialog box (Photoshop), 242, 244–246
 - lighting
 - ambient, 339–340
 - architecture photography
 - harsh lighting, 216
 - mixed lighting, 216
 - overview, 215
 - too little light, 216
 - too much light, 216
 - uneven lighting, 216
 - available, 339–340
 - existing, 339–340
 - small objects, lighting for shooting, 312
 - techniques for improving your photography, 295–297
 - linear polarizers, 85
 - Live View
 - LCD preview
 - eye-points, extended, 26
 - histograms, 25–26
 - infrared imagery, 27
 - overview, 25–27, 44–47
 - viewfinder compared, 45–47
 - locking out focus ranges, 121
 - long exposures causing noise, 16
 - longitudinal chromatic aberration, 342
 - long-term storage of images, 79–81
 - lossless compression, 165, 344–345
 - lossy compression, 166–167, 344–345
 - low contrast, 241
 - low light, lenses for, 124
 - lower resolution, shooting in, 188
 - low-resolution destination, shooting for a, 299–300
 - luminance, 166
 - Luminous Landscape, 332–333
- M •
- macro lenses, 128, 131, 132
 - macro (close-up) photography
 - manual focus, 119
 - prime lenses, 130
 - telephoto lenses, 138
 - Magic Wand tool (Photoshop), 265–267
 - magnification factor, 23
 - manual, reading your, 307–308
 - Manual Exposure mode, 116–117
 - manual focus, 119–120, 186, 219
 - marching ants, 260
 - Marquee tool (Photoshop), 262–263
 - medium for storing captured image, 36
 - megapixels (MP), 10, 31. *See also* pixels
 - memory
 - buffer, 48, 187–188
 - JPEG (Joint Photographic Experts Group)
 - file format, 171–172
 - TIFF (Tagged Image File Format) file
 - format, 169
 - memory cards
 - capacity, 74, 75–76
 - CompactFlash (CF), 48, 74, 75
 - dual
 - capacity, 77
 - fast card/slow card, using, 77
 - identical cards, using, 77
 - older cards, recycling, 77
 - overview, 50–51, 76–77
 - form factor, 74
 - limited memory card space, resolution
 - with, 298–299
 - overview, 48–49, 73–74
 - printer access, 291
 - Secure Digital (SD), 48–49, 74, 75

memory cards (*continued*)

Secure Digital Extended Capacity (SDXC),
48–49

Secure Digital High Capacity (SDHC),
48–49

upgrading, 188

write speed, 74–75

mergers, 220

Micro Four Thirds, 66

mid-range lenses, 131

Minolta/Konica Minolta/Sony Alpha
lenses, 140

Miranda, Fred (photographer), 334

mirror telephoto lenses, 135

mirrorless cameras, 65–66

mixed lighting, 216

moiré, 346

monolights, 91

monopods, 88

movie camera feature

overview, 9, 72

video

advantages of, 145

frame rates, 145

Full HD, 145

judder, 145

overview, 28, 144–146

playback, 146

resolution, 145

Standard HD, 145

moving objects, 84

multipoint/evaluative/matrix metering, 110

Muse (Lensbaby), 141

myths about camera shake, 150



ND (neutral density) filters, 84, 86

Neat Image, 148

night photography

fast lens for, 146

ISO settings for, 147

shutter speed for, 147

tripod for, 146

Nikon

cameras, 58

Capture NX 2, 175–176

image stabilization, 153

lenses, 140

noise

enhancing, 305–306

generated by sensors, 68

high ISO settings causing, 14–15

long exposures causing, 16

overview, 14–16

reducing, 148–149, 249–250

sensors, 40–41

sources for, 147–148

Noise Ninja, 148

non-anti-aliased edges, 261

non-compatible flash, 116



Obermeier, Barbara

Photoshop CS5 All-in-One For Dummies,
231, 246, 306

Olympus

image stabilization, 153

lenses, 141

online options for printing images, 287

online resources

Digital Photography Review, 329–331

eBay, 334–337

Facebook, 326–327

Fred Miranda (website), 334

Luminous Landscape, 332–333

PBase, 328–329

Photoshop.com, 327

PopPhoto, 332

Rob Galbraith (website), 333–334

Shutterbug, 331–332

SmugMug, 329

Optic Swap system (Lensbaby), 142

optical image stabilization, 132

outdoor sports photography, 129–130

out-of-focus backgrounds, 134–135

overexposed images, 107



panning, 191–193

panorama, tripods for, 87

pan/tilt head tripods, 89

Patch tool (Photoshop), 252

patterns, arranging subjects into
interesting, 209

PBase, 328–329

- PC (Prontor-Compur) connection, 92
- peak action, 193–194
- Pentax
 - cameras, 58
 - lenses, 141
- Pentax/Samsung image stabilization, 153
- personal storage device (PSD), 78
- perspective and architecture photography, 212–214
- perspective control lenses, 132
- perspective distortion, 213–214
- phase detection, 46
- photons, 14, 37
- Photoshop CS5 All-in-One For Dummies* (Obermeier), 231, 246, 306
- Photoshop.com, 234, 327
- photosites, 31, 37, 104, 133–134, 347–348
- PictBridge compatibility, 291
- pincushion distortion, 214, 258
- pinhole camera, 313–314
- PixelPaint, 164
- pixels
 - adding, 33
 - cropping images, 32
 - density, 134
 - dropping, 34
 - enlarging images, 32
 - manipulating images, 32
 - number needed, 32
 - overview, 29–31
 - print sizes and printers, 33–34
 - printer resolution, 32
 - resolution, 31–32
 - superfluous, 34–35
- playback for video, 146
- Pocket Wizard, 91
- point-and-shoot cameras and dSLRs
 - compared, 201–202
- polarizing filters, 85
- PopPhoto, 332
- portrait photography
 - angle that flatters subject, using, 207
 - composition, 206–209
 - defects, use diffuse lighting to diminish, 208
 - diamonds, grouping people in, 209
 - direction, have everyone look in same, 209
 - eyeglasses, avoiding reflections off, 208
 - into frame, having subject look, 207
 - groups, 208–209
 - individual portraits, 207–208
 - overview, 206–207
 - patterns, arranging subjects into
 - interesting, 209
 - prime lenses, 130
 - problem areas, de-emphasizing, 207–208
 - relaxed and comfortable, making sure
 - your subject is, 207
 - triangles, grouping people in, 209
- positioning with tripod, 87
- post processing (image editing)
 - with Adobe Photoshop CS5
 - advantages of, 228–229
 - Content Aware tools, 228
 - disadvantages of, 230–231
 - overview, 226–227
 - Puppet Warp tool, 228–229
 - with Adobe Photoshop Elements 9.0
 - advantages of, 231–233
 - disadvantages of, 233
 - overview, 231
 - alternative image editors, 233–234
 - background, adding new, 274–276
 - basic, 306
 - choosing an image editor, 226–235
 - (compositing) combining photographs, 276–282, 306
 - Corel Painter 12, 234
 - Corel PaintShop Photo Pro X3, 234
 - Corel Photo-Paint X5, 233
 - with filters, 256–258
 - fixes and repairs
 - blurring (selective), 238, 254–256
 - color correction, 238, 247–249
 - cropping, 237, 238–241
 - overview, 237–238
 - sharpening, 238, 254
 - spot removal, 238, 249–253
 - tonal adjustments, 238, 241–246
 - free image editors/albums, 234
 - freedom from image editors, 22–23
 - JPEG (Joint Photographic Experts Group)
 - file format, 170
 - manipulation of images with image editors, 306
 - overview, 225
 - Photoshop.com, 234
 - RAW file format, 175–180

post processing (image editing) *(continued)*

- removing people from images, 270–271
- retouching, 306
- selections
 - changing, 261
 - converting, 262
 - copying, 261
 - cutting, 261
 - filling, 261
 - with Lasso tool, 264
 - with Magic Wand tool, 265–267
 - with Marquee tool, 262–263
 - masking, 261
 - modifying, 269–270
 - overview, 260–261
 - painting, 261, 267–268
 - pixels, selecting, 265–267
 - saving, 262
 - selecting shapes, 262–264
 - transforming, 262
- separated subjects, bringing together, 271–273
- special effects with, 324
- TIFF (Tagged Image File Format) file format, 169
- Windows Live Photo Gallery 2011, 234
- workflow, 235–237

prime lenses, 47, 128–130

printers

- choosing, 288–292
- duplex printing, 292
- inks, number of, 290
- input/output trays, 292
- memory card access, 291
- overview, 289
- paper handling, 291
- PictBridge compatibility, 291
- print sizes and, 33–34
- resolution, 32, 291
- size and design, 290
- speed, 290

printing images

- do-it-yourself, 286
- duplex printing, 292
- kiosk/professional lab option, 288
- online options, 287
- options for, 285–288
- reasons for, 284–285

professional dSLR cameras, 63–65

professional lab option for printing images, 288

Program mode, 113–114

proportions, watching, 137

proprietary file format, 164

PSD (personal storage device), 78

publicity and public relations (PR) photography, 210–211

Puppet Warp tool (Adobe Photoshop CS5), 228–229



quality

JPEG (Joint Photographic Experts Group) file format, 170

of lenses, 67

quick-release plates, 90



Radio Popper, 91

RAW file format

archiving, 175

as digital negatives, 173–180

highest RAW setting, resolution at, 299

image-editing applications

Adobe Camera Raw, 178

Bibble Pro, 178, 180

Capture One Pro, 178

Digital Photo Professional, 176–177

EOS Utility, 176

GraphicConverter, 178

IrfanView, 178

Nikon Capture NX 2, 175–176

overview, 175

third-party applications, 177–180

overview, 168, 172

salvaging images from, 173–174

when to use, 173

rear-curtain sync, 197

Reduce Noise filters, 149, 250

reducing flash power, 188

reducing noise, 148–149

Refine Edge (Photoshop), 269–270

reflex viewing, 123

relative speed of subject, 191

relaxed and comfortable, making sure your subject is, 207

- removing people from images, 270–271
 - repairs and fixes
 - blurring (selective), 238, 254–256
 - color correction, 238, 247–249
 - cropping, 237, 238–241
 - overview, 237–238
 - sharpening, 238, 254
 - spot removal, 238, 249–253
 - tonal adjustments, 238, 241–246
 - resolution
 - in changing environments, 298
 - choosing, 297–300
 - for computer work, 300
 - for continuous shooting mode, 300
 - at highest JPEG setting, 299
 - at highest RAW setting, 299
 - with limited memory card space, 298–299
 - lower resolution, shooting in, 188
 - low-resolution destination, shooting for a, 299–300
 - overview, 10
 - and pixels, 31–32
 - and printers, 291
 - at second-best JPEG setting, 299
 - for transferring photos, 300
 - and video, 145
 - retouching, 306
 - Rob Galbraith (website), 333–334
 - Rule of Thirds
 - landscape photography, 218
 - overview, 205–206
- S •
- Safe-Sync, 200
 - salvaging images from RAW file format, 173–174
 - saturation, 346–347
 - Scene mode, 114
 - Scout (Lensbaby), 142
 - second-best JPEG setting, resolution
 - at, 299
 - second/spare camera, 97
 - Secure Digital Extended Capacity (SDXC)
 - memory card, 48–49
 - Secure Digital High Capacity (SDHC)
 - memory card, 48–49
 - Secure Digital (SD) memory card,
 - 48–49, 74, 75
 - selections
 - border, 260
 - changing, 261
 - converting, 262
 - copying, 261
 - cutting, 261
 - filling, 261
 - with Lasso tool, 264
 - with Magic Wand tool, 265–267
 - with Marquee tool, 262–263
 - masking, 261
 - modifying, 269–270
 - overview, 260–261
 - painting, 261, 267–268
 - pixels, selecting, 265–267
 - saving, 262
 - selecting shapes, 262–264
 - transforming, 262
 - selective blurring, 238, 254–256
 - selective focus, 118
 - sensor-cleaning kit, 98
 - sensors
 - CCD (charge coupled device), 38, 69
 - cleaning, 51–52
 - CMOS (complementary metal-oxide semiconductor), 38, 69
 - components of, 38–40
 - dynamic range of, 68, 105
 - Foveon, 40
 - lenses, relationship with, 133–134
 - noise generated by, 40–41, 68
 - overview, 12–14, 37–41
 - professional dSLR cameras, 65
 - sensitivity, 40–41
 - types of, 38
 - separated subjects, bringing together, 271–273
 - sequence photography, 189–190
 - Seurat, Georges (artist), 30
 - Shadow/Highlight controls (Photoshop), 242–244
 - sharpening, 238, 254
 - sharpness, lenses for, 125
 - short-tele to telephoto lenses, 131
 - shot-to-shot time, 19
 - shutter
 - lag
 - first-shot delays, minimizing, 186–187
 - flash delays, minimizing, 188–189

shutter (*continued*)

- flash photography, 188–189
- minimizing, 185–186
- overview, 19–20, 182–183
- point-and-shoot cameras compared to dSLRs, 182–183
- shot-to-shot delays, minimizing, 187–188
- sources of, 184
- overview, 36
- speed
 - choosing, 300–301
 - fast, 319–320
 - and lenses, 124
 - ND (neutral density) filters, 84
 - for night photography, 147
 - overview, 42
 - slow, 136, 317–318
 - telephoto lenses, 139
- Shutter Priority mode, 115–116
- shutter release, responsiveness of, 8
- Shutterbug, 331–332
- Shutterfly, 287
- Shuttersnitch, 96
- simple method for adjusting exposure, 112–113
- single autofocus, 122
- single lens reflex (SLR), 7
- slave device, 91, 199
- slow shutter speed, 317–318
- slow-sync, 198
- small objects, lighting for shooting, 312
- smart phone apps, 93
- SmugMug, 329
- Snap-Art 2 (Alien Skin), 256–257
- Snapfish, 287
- solutions for camera shake, 152
- Sony image stabilization, 153
- spare camera, 97
- special effects
 - filters, 86, 320–321
 - with image editing, 28, 324
 - lenses and, 141–142
 - Manual Exposure mode, 116
- special features
 - anti-dust, 71
 - anti-shake, 72
 - built-in HDR, 71
 - burst modes, 71
 - lenses, 68
 - movie-shooting, 72
 - overview, 70–72
 - sweep panorama, 71
 - 3D photography, 71
 - Wi-Fi, 71
- special lenses, 132–133
- speed
 - overview, 17
 - printers, 290
 - shot-to-shot time, 19
 - shutter lag, 19–20
 - wake-up time, 17–19
- speedlight, 90
- sports photography, 138
- Spot Healing Brush (Photoshop), 253
- spot metering, 110
- spot removal
 - with Clone Stamp tool, 251–252
 - with Despeckle filter, 251
 - with Dust & Scratches filter, 251
 - with Healing Brush, 252
 - methods for, 251
 - noise, reducing, 249–250
 - overview, 238
 - with Patch tool, 252
 - with Spot Healing Brush, 253
- stand, tripod used as camera, 87
- Standard HD video, 145
- steady, tripod used for holding camera, 87
- stopping action, 190–191, 319–320
- storing images
 - backup media for, 78–79
 - cloud storage, disadvantages of, 81
 - long-term, 79–81
 - options for, 78–79
 - overview, 47–49, 77
 - RAID (Redundant Array of Inexpensive Disks) setup for, 81
- strobes, 194
- studio flash unit, 91
- subject, distance and angle to your, 204
- subject arrangement, 204
- sunrises, 219
- sunsets, 219
- superfluous pixels, 34–35

superwide lenses, 23–24
 superzoom cameras
 electronic viewfinders, 11–12
 overview, 65–66
 sweep panorama, 71
 switching between lenses, 8–9

• T •

tablet apps, 93
 telephoto lenses
 creative use of, 138–140
 crop factor, 52
 overview, 127, 131
 testing for camera shake, 151–152
 third-party applications for RAW image-
 editing, 177–180
 3D photography, 71
 threshold, 37, 347–348
 through-the-lens (TTL) metering, 198
 TIFF (Tagged Image File Format)
 editing, 169
 file size, 165
 lossless compression, 165
 memory, 169
 overview, 164–165
 post-processing, 169
 quality, 169
 when to use, 169
 tilting the camera for architecture
 photography, 213–214
 tilt-shift lenses, 68
 time exposure, 42
 time-lapse photography, 156–157, 315–317
 tolerance, 348
 tonal adjustments
 Auto tools (Photoshop), 242
 Brightness/Contrast controls
 (Photoshop), 242
 Curves dialog box (Photoshop), 242, 246
 Levels dialog box (Photoshop),
 242, 244–246
 overview, 238, 241–242
 Shadow/Highlight controls (Photoshop),
 242–244
 tools for, 242–246
 toward the camera, subject moving, 191
 transferring photos, 300
 transitional cameras, 65–66

travel photography
 balance in, 220
 composition, 219–221
 mergers, avoiding, 220
 overview, 219–221
 unexpected images, 220
 triangles, grouping people in, 209
 triggering flash unit, 91–92
 tripods
 ball head, 89
 choosing, 88–90
 disadvantage of, 88
 features of, 88–90
 fluid head, 89
 joystick head, 89
 landscape photography, 218
 for night photography, 146
 overview, 86–87
 pan/tilt head, 89
 quick-release plates, 90
 uses for, 87–88
 TruelImage Home, 81
 TTL (through-the-lens) metering, 198
 twin-lens reflex, 123

• U •

underexposed images, 108
 uneven lighting, 216
 unexpected images, 220
 unique angle, shooting from, 136
 unsharp masking, 348–349
 upgrade potential, 57–58
 upgrading memory card, 188
 uploading images
 through smart phone, 96
 through tablet, 96
 to web, 95
 to your computer, 94
 upsampling, 33
 UV (ultraviolet) lenses, 133

• V •

Variations dialog box (Photoshop), 248
 vendor support for older model
 cameras, 58
 vertical composition, 203–204
 vertical lines skewed, avoiding, 136

vertical orientation for landscape
photography, 219

video

- advantages of, 145
- frame rates, 145
- Full HD, 145
- judder, 145
- overview, 28, 144–146
- playback, 146
- resolution, 145
- Standard HD, 145

viewfinder

- electronic viewfinders (EVF), 11–12
- Live View compared, 45–47
- overview, 8, 44–47

viewing system, 35

vignetting, 138

visual noise

- enhancing, 305–306
- generated by sensors, 68
- high ISO settings causing, 14–15
- long exposures causing, 16
- overview, 14–16

reducing, 148–149, 249–250

sensors, 40–41

sources for, 147–148



wake-up time, 17–19

web display, 170

weight of camera, 27

wide-angle lenses

- creative use of, 136–138
- crop factor, 53
- overview, 125–126, 131

Wi-Fi transmission, 93–96

Windows Live Photo Gallery 2011, 234

wireless flash unit, 91–92, 199

workflow, 235–237

write speed, 74–75



zoom lenses, 47, 128, 130–131